# Unit Strategic Fire Plan Tehama-Glenn Unit



2016

Last update: 2 May 2016

# **UNIT STRATEGIC FIRE PLAN AMENDMENTS**

Date Section Updated		Page Numbers Updated	<u>Description</u> of Update	Updated By	
5/23/12	Section IV-A	11,13,15	Dates and Statistics	S. Osenton	
5/23/12	Section V-A	17,18,19,21,23,24,25,26	Remove statistics, Administrative names	S. Osenton	
5/23/12	Appendix A	27,28	Updated project status	S. Osenton	
5/23/12	Addendum	46,47	Added TGU Assignments and Fires by Battalion Charts	S. Osenton	
4/30/2013	Entire plan		Change plan to 2012 template	S. Osenton	
4/30/2013	Section II	8	Remove names, replace with titles	S. Osenton	
4/30/2013	Section III	9	Remove Assets at Risk map	S. Osenton	
4/30/2013	Section III	10	Provided description of Communities at Risk	S. Osenton	
4/30/2013	Section IV	11,13, 15	Removed specific year statistics	S. Osenton	
4/30/2013	Section IV	12	Removed picture	S. Osenton	
4/30/2013	Section V	23, 24, 25, 26	Removed date specifics	S. Osenton	
4/30/2013	Appendix A	27	Updated	S. Osenton	
4/30/2013	Appendix B	29	Moved amendments page to front of plan, replaced with Unit specific goals	S. Osenton	
4/30/2013	Appendix C	30, 31, 32, 33, 34, 35, 36	Removed Appendix C, replaced with CWPP	S. Osenton	
4/30/2013	Appendix D		Added Ignition Analysis	S. Osenton	
4/30/2013	Exhibits	39	Updated Unit and Battalion maps	S. Osenton	
4/30/2013	Supplement		Added Supplement	S. Osenton	
4/30/2013	Table of Contents	ii	Updated	S. Osenton	
4/26/2014	Section IV	11, 13	Updated, added VTP	S. Osenton	
4/26/2014	Section V	14, 18, 20, 22	Updated goals and priorities	S. Osenton	
4/26/2014	Appendix A	26	Added and updated projects	S. Osenton	
4/26/2014	Appendix D	29, 30, 31	Updated Ignition Analysis	S. Osenton	
4/26/2014	Exhibits: Maps	33	Updated 10 year fire history	S. Osenton	
4/26/2014	Annual Accomplishment Report	39	Added 2014 report	S. Osenton	
4/30/2015	Appendices A, C and D	24-26, 28, 29	Updated	S. Osenton	
4/30/2015	Exhibit-Fire History	33	Updated	S. Osenton	
4/30/2015	Executive Summary	1	Edited	S. Osenton	
4/30/2015	Annual Accomplishment Report	40	Added 2015 report	S. Osenton	
5/2/2016	Annual Accomplishment Report	35-41	Added 2016 report, reorganized	S. Osenton	
5/2/2016	Exhibits: Maps	29	Updated maps	S. Osenton	
5/2/2016	Pre-fire Management Tactics	16,18	Updated	S. Osenton	

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# **Table of Contents**

Table of Contents	ji
SIGNATURE PAGE	. 1
EXECUTIVE SUMMARY	. 2
SECTION I: UNIT OVERVIEW	. 4
UNIT DESCRIPTIONUNIT PREPAREDNESS AND FIREFIGHTING CAPABILITIES	. 6
SECTION II: COLLABORATION	. 7
COMMUNITY / AGENCIES / FIRE SAFE COUNCILS  A: VALUES  B: COMMUNITIES	. 8
SECTION IV: PRE-FIRE MANAGEMENT STRATEGIES	10
A: FIRE PREVENTION	10
ENGINEERING & STRUCTURE IGNITABILITY	11
INFORMATION AND EDUCATION	12
B. VEGETATION MANAGEMENT	13
SECTION V: PRE- FIRE MANAGEMENT TACTICS	14
DIVISION / BATTALION / PROGRAM PLANS	14
APPENDIX A: PRE- FIRE PROJECTS	25
APPENDIX B: UNIT GOALS AND OBJECTIVES	26
APPENDICES C-Z	27
EXHIBITS: MAPS	30
SUPPLEMENT: 2016	25

### SIGNATURE PAGE

## Unit Strategic Fire Plan developed for Tehama-Glenn:

### This Plan:

- Was collaboratively developed. Interested parties, Federal, State, City, and County agencies within the Unit have been consulted and are listed in the plan.
- Identifies and prioritizes pre fire and post fire management strategies and tactics meant to reduce the loss of values at risk within the Unit.
- Is intended for use as a planning and assessment tool only. It is the responsibility of those implementing the projects to ensure that all environmental compliance and permitting processes are met as necessary.

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**Christine Thompson** 

Date

Pre-Fire Engineer

**Steve Osenton** 

Date

### **EXECUTIVE SUMMARY**

The California Department of Forestry and Fire Protection's (CAL FIRE) Tehama-Glenn Unit encompasses approximately 2,730,098 acres. CAL FIRE provides direct protection for approximately 1,539,208 of those acres. With the exception of the four incorporated cities of Red Bluff, Corning, Orland and Willows, and small areas of Local Responsibility Area (LRA) lands within Tehama and Glenn Counties; CAL FIRE maintains statutory responsibility for all wildland fires. Of the total county population of both Tehama and Glenn, approximately 22% live within State Responsibility Area (SRA) lands. Population growth will continue to impact SRA lands because of the build-out character of LRA lands.

The Unit Headquarters is located at 604 Antelope Blvd., in Red Bluff California. The facility is home to a Logistics Service Center, Training Center, Automotive Fleet Maintenance Shop, Battalion II Headquarters, the Antelope Volunteer fire Company, and a radio maintenance shop with an a OES radio technician. It also houses the Emergency Command Center, which provides fire, rescue, and medical dispatching services on a contractual basis for most of the County. The Unit's Prevention Bureau includes a Pre-Fire Engineer, fire investigation personnel, Peace Officers, and Fire Prevention Specialist, who also serves as Public Information Officer. The Protection and Planning Bureau consists of the Tehama County Fire Marshal, and two Education/Fire and Life Safety Inspectors, whom are partially funded by Title III grant funds.

The assumption used in developing this Unit Pre-Fire Management Plan is that proposed prefire projects will reduce fire suppression costs and large devastating losses during periods of severe fire weather. Once a pre-fire management project is accomplished, a fire burning in that project area would be contained at a smaller size, burn with lower intensities and severity, significantly reduce suppression costs, and reduce loss to the environment and human infrastructure.

The overall goal of the Tehama-Glenn Unit Fire Plan is to reduce fire suppression costs and losses from wildland fires within the Unit by protecting assets at risk through focused pre-fire management prescriptions and increased initial attack success. To make the Unit fire plan a success, several key objectives should be met or strived for during implementation of the plan, including;

- Collection and analysis of data from a variety of resources to evaluate potential projects and determine the levels of benefits provided to the communities and environment within the Unit.
- Development of strong local relationships with stakeholders to cultivate and maintain a more natural fire resilient landscape. These relationships will be instrumental in establishing community buy in to the responsibilities of living in the Wildland.
- Educate the public on why fire prevention techniques and requirement measures are so important in developing safer homes and communities.
- To have a strong fiscal policy in order to focus and monitor the wildland fire protection system in fiscal terms. This will include all public and private expenditures and economic losses.

Before and during implementation of any pre-fire management activity, stakeholders' input is sought in order to:

- Acquaint stakeholders with the process
- Bring their expertise and knowledge to identify assets-at-risk
- Review the level of service in these locations
- Identify areas where the stakeholders consider levels of risk unacceptable
- Identify other beneficial results of various fuel management activities

Each area of the Tehama-Glenn Unit, to a greater or lesser extent, will need to adapt to the ever-increasing population moving into and recreating in the wildland areas of the counties. The increase in these activities will increase risks of fires and even greater expectations for all CAL FIRE response services. Through development, implementation, and ongoing reassessment of this Plan's priorities, the Tehama-Glenn Unit will be ready and steadfast in its ability to provide leadership in pre-fire management planning and in protecting the citizens of Tehama and Glenn Counties from destructive wildfires.

Christine Thompson
Chief, Tehama-Glenn Unit

### SECTION I: UNIT OVERVIEW

#### UNIT DESCRIPTION

The Tehama-Glenn Unit is located in the Northern Sacramento Valley. The Unit is comprised of flat grasslands on the valley floor and steadily transitions to oak woodland, brush, chaparral and finally to large stands of conifer timber in the higher elevations located in the surrounding mountains. The area is known as a sportsman's paradise, with fishing on the Sacramento River and plenty of deer, pig, bear, turkey and water fowl hunting in the surrounding foothills.

### Tehama County



Tehama County is approximately 1,889,000 acres in size and has an estimated population of 62,000 permanent residents. CAL FIRE is directly responsible for 1,227,753 of those acres. The valley floor is where the vast majority of the residents live; these areas include Red Bluff City, Corning, Los Molinos, Tehama, Lake California, and Gerber. The fertile ground along the valley floor make Tehama and Glenn County a prime location for

Agriculture, some of the more predominant crops grown in the counties are Olives, Almonds and Walnuts.

There are numerous communities located on the outskirts of the valley floor; many of these locations have been identified as communities at risk. Rancho Tehama, Red Bank, Paskenta, Baker, Bowman, R Ranch, Dibble Creek, Flournoy, Bend, and Wilcox are some of those communities. These communities typically lie in areas of oak woodland and chaparral belt. Many of these areas are utilized by cattle ranchers, as the climate and vegetation are very conducive to raising livestock.

The mountainous regions of Tehama County are located both East and West of the "Central Valley". The far West side of the county is owned predominately by the U.S. Forest Service and is under the jurisdiction of the Mendocino National Forest. There are numerous Bureau of Land Management properties scattered throughout the West side as well. The Far East side of the county is a mix of Lassen National Forest, Lassen Volcanic National Park, California Department of Fish and Wildlife, and private timber industry lands. There are several mountain communities located both in the East and West end of the county. These communities include Manton, Paynes Creek, Ponderosa Sky Ranch, Mill Creek, Mineral, and Dales Station. Sierra Pacific Industries owns numerous large tracts of timberland on the East side, and is a major employer of the local area.

The East side has an extremely important watershed value to the central valley, and also to fish habitat. There are four major drainages which carry water from the mountains to the east all the way down to the Sacramento River. These drainages are the Antelope Creek, Mill Creek, Deer Creek, and the Battle Creek Drainages. Battle Creek is on the forefront of Salmon restoration in the Western United States, and is the site of the Coleman National Fish Hatchery.

The West side of the county has two major drainages which run east to the Sacramento River. These drainages are the Thomes Creek drainage and the Cottonwood Creek Drainage.

# Glenn County



Glenn County is approximately 842,000 acres in size and has an estimated population of 29,000 permanent residents. CAL FIRE directly protects 314,146 acres of land in Glenn County. The majority of the residents in Glenn County live on the valley floor along the Interstate 5 corridor. The two main communities in Glenn County are the City of Orland, and the City of Willows, Willows being the County Seat.

Glenn County is well known for its production of olives, cotton, almonds, rice and for its recreational value. The recreational value includes Black Butte Lake, Stony Gorge Reservoir, and the Sacramento River. Glenn County is bordered on the East side by the Sacramento River, and by the Mendocino National Forest on the west side.

Much of the land along the Sacramento River is owned either by the United States Fish and Wildlife Service, Department of Fish and Wildlife, or Nature Conservancies. The land directly adjacent to Black Butte Reservoir is owned by the Department of Defense (Army Corps of Engineers). On the west side of the county the majority of the ownership is the United States Forest Service, Mendocino National Forest, with some scattered Bureau of Land Management properties.



### UNIT PREPAREDNESS AND FIREFIGHTING CAPABILITIES

Tehama-Glenn Unit CAL FIRE Facilities and Equipment

Red Bluff Headquarters – 2 Engines – 1 Bulldozer with Transport and Tender Bowman Station – 1 Engine
Baker Station – 1 Engine
Red Bank Station – 1 Engine
Paskenta Station – 2 Engines
Elk Creek Station (Glenn County) – 2 Engines
Paynes Creek Station – 2 Engines
Manton Station – 1 Engine

Vina Helitack Base – 1 UH-1H Super Huey Helicopter and 1 Helitender

Ishi Conservation Camp -5 Inmate Fire Crews -1 Bulldozer with Transport and Tender Salt Creek Conservation Camp -6 Inmate Fire Crews -1 Bulldozer with Transport and Tender Valley View Conservation Camp -6 Inmate Fire Crews

Pattymocus Lookout – Unstaffed Inskip Lookout – Staffed by U.S.F.S. seasonally Eagle Peak Lookout - Unstaffed

# Dispatch agreements

CAL FIRE currently maintains dispatch agreements with several local emergency response agencies. These agencies include the following:
Tehama County Fire Department
Red Bluff City Fire Department
Hamilton City Fire Department
Saint Elizabeth's Hospital Ambulance Dispatch

# Mutual / Automatic Aid agreements

CAL FIRE currently maintains numerous Mutual and Automatic Aid agreements with local and federal entities. CAL FIRE Tehama-Glenn is very aggressive in maintaining these relationships with local and Federal agencies as this system of agreements has proven to better serve the citizens of Tehama and Glenn County's. CAL FIRE Maintains agreements with the following agencies:

Tehama County Fire Department (Auto and Mutual)

Red Bluff City Fire Department (Auto)

Corning City Fire Department (Mutual)

Capay Fire District (Mutual)

Cottonwood Fire Protection District (Mutual /Auto)

Glenn County Fire Departments (Mutual)

USFS Mendocino Forest and Lassen Forest (Auto)

Lassen Volcanic National Park (Auto)

Shasta County Fire Department (Auto/Mutual)

Butte County Fire Department (Auto/Mutual)

# **SECTION II: COLLABORATION**

# COMMUNITY / AGENCIES / FIRE SAFE COUNCILS

Representatives involved in the development of the Unit Strategic Fire Plan are included in the following table. Their organization and title are indicated below:

# Plan Development Team:

Organization	Title	
Tehama County Resource Conservation District	Projects Manager	
Glenn County Resource Conservation District	Projects Manager	
Sierra Pacific Industries	District Manager	
Sunflower CRMP	Chair	
Cottonwood Creek Water Shed Group	Chair	
Western Shasta RCD	Projects Manager	
Battle Creek Watershed Conservancy	Watershed Coordinator	
Tehama Fire Safe Council	Chair	
The Nature Conservancy	Preserve Manager	
U.S. Fish and Wildlife Service	District Supervisor	
USDA Forest Service - MNF	District Supervisor	
Department of Interior - BLM	District Supervisor	
USDA Forest Service - LNF	District Supervisor	
CA Dept. Fish and Wildlife	Wildlife Habitat Supervisor II	
Lassen Volcanic National Park	Park Supervisor	
Collins Pine Company	District Manager	
Manton Fire Safe Counsel	Chair	
Tehama Resource Advisory Committee	Chair	
California Fire Safe Counsel	Sierra Region Board Chair	

### **SECTION III: VALUES**

### A: VALUES

The Tehama-Glenn Unit has numerous Assets which would be considered at risk in the event of a large wildfire or other natural disaster. The top priority Assets are life and property. There are numerous communities scattered throughout the Urban Interface areas of both counties. Many of these communities have been recognized as communities at risk (see sub section B).

There are many important assets in the infrastructure category which are vitally important to millions of people's everyday lives. Tehama and Glenn counties both have large high tension power lines running through them, both along the valley floor and in the foothills. These lines carry electricity to the Bay area and Sacramento. There are several communications towers in Tehama County which are repeater sites for both Law Enforcement and Fire Departments. These sites also carry the 911 service calls. Numerous high pressure gas lines can also be found traversing the county underground.

The watershed value of the Tehama-Glenn Unit is among the most valuable in the Western United States. These watersheds not only supply drinking and agricultural water to more populated areas, but are also vital to the states salmon restoration efforts.

Other Assets at risk include timber in the mountainous areas, and grazing / agricultural in the lower elevations.

### **B: COMMUNITIES**

These are high risk communities identified within the wildland-urban interface, the area where homes and wildlands intermix.

The "Communities at Risk" in Tehama and Glenn Counties listed in the table below are on the National Registry available at the following site:

http://www.cafirealliance.org/communities at risk/.

### FIRE THREATENED COMMUNITIES IN TEHAMA AND GLENN COUNTY

<b>Community Name</b>	Federal Threat <sup>1</sup>	Hazard Level <sup>2</sup>		
Bend	×	2		
Corning		3		
Dairyville		2		
Elk Creek	×	3		
Los Molinos		2		
Manton	×	3		
Mill Creek	×	3		
Mineral	×	3		
Orland		2		
Paskenta	×	3		
Paynes Creek	×	3		
Red Bluff	×	2		
Wilcox		2		
Willows		2		

<sup>1.</sup> Federal Threat code of x indicates some or all of the wildland fire threat to that community comes from federal (e.g., US Forest Service, BLM, and Dept. of Defense) lands.
2. Hazard Level code indicates the fire threat level, where two denotes moderate threat and threedenotes high threat.

The following communities in Tehama and Glenn Counties are not listed on the National Registry, but may be at risk: Artois, Bowman, Butte City, Chrome, Dales Station, Dibble Creek, El Camino, Flournoy, Gerber, Glenn, Grindstone Rancheria, Hamilton City, Lake California, Ponderosa Sky Ranch, Proberta, R-Wild Horse Ranch, Rancho Tehama, Red Bank, Richfield, Ridgeway, Vina, and Tehama.

### SECTION IV: PRE-FIRE MANAGEMENT STRATEGIES

#### A: FIRE PREVENTION



The Fire Prevention Bureau is comprised of one Battalion Chief, one Fire Captain Specialist and one FPS II. The Battalion Chief and Fire Captain Specialist are Sworn State Peace Officers and Certified Fire Investigators. Due to the limited staffing levels, the Unit Fire Marshal and the Pre Fire Engineer assist with both coverage and Fire Investigations.

The key to success is two-fold. First the Prevention Bureau considers education a top priority. In order to educate the public we have given numerous power point presentations and Fire Prevention speeches to Fire Safe Councils and local businesses, and are continually educating school aged children at both school assemblies and public events. We have a strong Public Information Officer (PIO) program which is constantly educating the public through various local and nationwide media outlets.



Secondly Tehama County has passed an ordinance which is based on Public Resource Code Section 4291, thus allowing us to enforce within the Local Responsibility Areas. The vast majority of those contacted were compliant; however during the contacts they and their neighbors were educated on the ordinance and the importance of defensible space and fire safety awareness.

Highlights of Tehama County Ordinance 9.05.08:

- Vacant parcels under 1.25 acres are required to have 100% clearance regardless of being improved or not.
- Parcels between 1.25 acres and 2 acres that are not improved require a 30 foot fire break around the perimeter, and for improved parcels the ordinance requires 100 feet of clearance.
- Parcels over 2 acres with improvements require 100 feet of clearance.

Escaped debris burns, equipment and vehicle caused fires continue to be the leading causes of fires within Tehama County. Fire Prevention is continuing to make public education a top priority to reduce the number of fires by completing approximately 3,800 Fire Hazard inspection forms annually.

### **ENGINEERING & STRUCTURE IGNITABILITY**



Currently the Tehama-Glenn Unit and Tehama County Fire Department utilize different statutes to determine fire department requirements dependent on which county is in question. To implement fire safety standards in Glenn County, Public Resource Codes (PRC) 4290 & 4291 are utilized along with standard LE-100 Forms to enforce vegetation issues. Glenn County Building Department is the enforcing agency for the

enforcement of building codes.

In Tehama County, Ordinance No. 1537 chapter 9.14 "FIRE SAFE REGULATIONS" and California Code of Regulations Title 24 are used to condition residential and commercial development within Tehama County. Enforced by these standards are addressing, road signing, road standards, drive way standards, fire-flow standards, building construction standards, residential and commercial sprinkler standards (when required or utilized as a mitigation).

Land development standards are enforced within Tehama County by the Tehama County Fire Marshal. The Fire Marshal is an active member of the Tehama County Technical Advisory Committee (TAC), where new subdivisions, parcel splits, new roads, and special developments within Tehama County are reviewed. During this review process the committee addresses access and egress, water for fire use, road standards, lot size and total number of lots as well as other issues that are relative to fire and life safety and county development standards. All projects are subject to the Tehama County Land Development Standards and are required to meet all safety standards as conditioned by the TAC.

Tehama County employs two Tehama County Fire Prevention / Life Safety Education officers, who are partially funded through Title 3. On a yearly average, these officers complete over 1300 inspections, drive over twenty thousand miles and log more than 1000 hours for inspections and public contacts. The inspectors review approximately 500 plot plans annually for new construction projects within the unincorporated areas of Tehama County.

With a focus on preventing significant fire damage to residential structures, the Fire Prevention Bureau has worked to develop strategies that coincide with standards established by organizations such as "Fire Safe Council" and "Fire Wise".

The bureau, has identified and inspected approximately 600 commercial businesses in operation within the jurisdiction of Tehama County Fire, as mandated by Title 24 Part 9 Section 104.3 right of entry of the California Fire Code and Division 12 Part 2 Chapter 1 Article 2 Section 13146.2 (a) of the California Health And Safety Code; requiring these businesses to be inspected once a year. Business owners have given our inspectors the opportunity to educate them on preventable fires within their facilities.

Tehama-Glenn Unit / Tehama County Fire Department utilize "Volunteers In Prevention" (VIP), engine companies, and Forestry Aides to conduct PRC 4291 defensible space inspections. This program is further enhanced by utilizing Tehama County Ordinance No. 1912 Chapter 9.05 FIRE HAZARD ABATEMENT in the Local Responsibility Area (LRA) of Tehama County.

### INFORMATION AND EDUCATION

The Tehama-Glenn Fire Prevention Specialist II is responsible for all media contacts and dissemination of public and fire information. They are also responsible for the VIP program and all school / public events.

The Information and Education Section of the Fire Prevention Bureau participates in Approximately 50 fire prevention programs annually in Tehama and Glenn Counties, including school presentations for thousands of children, the Tehama County Fair, parades, the Corning Olive Festival and the Emergency Preparedness Day in Red Bluff, as well as the Special Olympics of Tehama County and the Regional Special Olympics of Northern California in Davis CA. It is estimated that over 25,000 public contacts are made each year. The Information and Education Department actively recruit VIP to assist the Fire Prevention Bureau in educating the public about fire safety. VIP average approximately work 600 hours annually.

By educating the public about the dangers of fire and by providing fire safety programs and messages via news releases, the information and education section will continue to help reduce the number of ignitions within the Tehama-Glenn Unit. These efforts are highly successful in teaching the fundamentals of fire safety and fire prevention. This section will continue to actively promote fire prevention and fire safety in the community.

The Fire Protection/Planning and Fire Prevention Bureaus continue to actively promote fire prevention and fire safety education within Tehama and Glenn Counties.



# B. VEGETATION MANAGEMENT UNIT FORESTER – VMP COORDINATOR – D2506

Fuels Reduction - The Resource Management staff of the Tehama-Glenn Unit (TGU) are tasked by state statute (1973 Z'Berg-Nejedly Forest Practice Act) to enforce the California Forest Practice Act and Forest Practice Rules for private timberland owners within Tehama and Glenn counties. This enforcement starts with the review of the initial project and carries through the actual harvesting of timber to the final completion of the project, with treatment of logging slash to reduce the overall fuel hazard if necessary. During the review of commercial timber harvesting plans (THP's) CAL FIRE staff has opportunities to provide written recommendations to project proponents designed to facilitate a positive change in the methods in which timber operations are conducted. We continually look for ways to improve fire safety, hazard reduction, public safety, vehicular access, water sources, timing of operations, wildlife benefits, and other site specific mitigating measures necessary to support the Strategic Plan.



Vegetation Treatment Programs (VTP) - The Resource Management and Fire Control staff in TGU assists private communities, timber and range landowners, stakeholder groups and other resource organizations in performing fuel reduction and range improvement projects, such as the creation of fuel breaks designed to increase public safety while reducing the losses during wildfires. The new State Responsibility Area (SRA) fees paid by landowners in designated SRA created funding for fuel reduction projects,

education programs, defensible space inspections and a Vegetation Treatment Specialist assigned in TGU to coordinate fuels projects. Some of the ranking criteria for valid projects funded through SRA fees are; location within SRA's, how proposed treatment reduces fire risk, increases fire prevention activity and education, benefits to SRA fee payers, and whether the project has been identified in the Unit Fire Plan.

The Vegetation Management Program (VMP) is one of the programs under VTP. The cost share program is utilized to assist private timber and range landowners in performing fuel reduction and range improvement projects, such as prescribed burning. The VMP Coordinator oversees and implements the VMP within the Tehama-Glenn Unit. TGU is one of the most active units within the state with annual acreage burned averaging between 1,000 and 2,000 acres.

Suppression Repair - Resource Management staff generally accept the role of suppression repair duties in the Unit. Our resource background, training and knowledge of both fire control issues and methods of addressing complex environmental issues greatly support the Department's Strategic Plan. Our ICS qualifications and knowledge of the California Environmental Quality Act (CEQA) allows us to work effectively and lawfully to provide a level of protection for the Department from legal issues. We have many private and agency contacts such as other resource professionals from whom we may seek advice or assistance in repair efforts.

### SECTION V: PRE-FIRE MANAGEMENT TACTICS

#### **DIVISION / BATTALION / PROGRAM PLANS**

### BATTALION I - Administered by Battalion 2511



Battalion I (East) lies in the northeast corner of Tehama County. The Battalion runs from the eastern foothills on the east side of the Sacramento Valley to the Lassen National Forest boundary on the east, and from the Butte County line in the south to the Shasta County line in the north.

Topography within Battalion I include rolling foothills in the west to mountain terrain in the East; with predominate volcanic influence in geography. This area includes several major drainages, which run generally east to west, such as Deer Creek, Antelope Creek, Mill Creek, and Battle Creek. These drainages form steep canyons, which present substantial access problems and promote rapid fire spread.

Fuels within Battalion I consist of grass and oak-woodlands in the lower foothills with increasing brush, pine, and mixed conifer forests as the foothills rise to mountains in the east. These grass fuels in the foothills and canyons have historically carried fast spreading, wind driven, high intensity fires with a moderate to high resistance to control due to access problems.

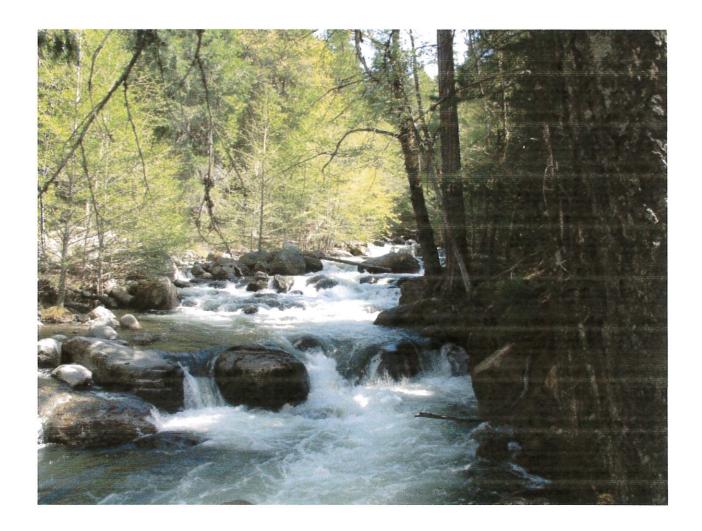
Fires occurring in the grass, oak-woodland, brush mix, and timber present the greatest resistance to control and, when they occur, account for the greatest damage to natural resources and structures. Lightning strikes often cause multiple fires and are often difficult to access

Battalion I has developed priorities that are integrated into this plan. The first priority is to determine and improve areas to limit fire spread from remote areas and roadside fires. This is being accomplished by several fuel reduction and fuel break projects within the Battalion. The second priority is working with cooperators to ensure fire protection measures are in place and equipment is working properly. This is accomplished through education to limit the amount of power line and equipment caused fires.

Collaborators within Battalion I include CAL FIRE, USFS, Battle Creek Watershed Conservancy, Manton Fire Safe Counsel, Tehama County Resource Conservation District, Timber Companies and Private Land Owners. Together, we have been able to access funding to complete or continue roadside fuel reduction projects along Highway 36 East, Hazen Road, C-Line, Little Giant Mill Road and Ponderosa Way.

Assets at risk within Battalion I include extensive timber, rangelands, watershed, associated fisheries, and several rural communities including hundreds of isolated structures. The communities of Payne's Creek, Manton, Ponderosa Sky Ranch, and Mineral have historically suffered damage to homes and property during periodic fires in these areas. Larger fires within the Battalion have caused widespread damage to communities, range lands and fisheries and cost millions of dollars to suppress.

To protect these assets, the need to educate and inspect defensible space requirements, maintain current fuel breaks and fuel reduction projects, and the development of new projects is imperative for the success in Battalion I. The Battalion will continue to educate the communities about defensible space, participate with government and private cooperators to maintain and develop new fuel reduction projects.



### **BATTALION II – Administered by Battalion 2512**

Battalion II lies primarily within the Sacramento Valley floor area of Tehama County and covers a large portion of Tehama County's Local Response Area (LRA). The Battalion consists of the communities of Bend, Antelope, Dairyville, Los Molinos, Tehama, Proberta, El Camino and Vina. The SRA area within the battalion transitions from the valley floor along the Interstate 5 corridor into the rolling hills and steep drainages in the Southeastern portions of Tehama County. Some of the more notable landmarks are the Deer Creek drainage and western portions of the Mill Creek drainage.

The predominant fuel type within the battalion is grass and oak woodland; however as the topography transitions into the steeper east side drainages, chaparral and other native brushes become extensive. As you transition into the far eastern portion of the battalion smaller stands of timber become evident. The battalion has a wide variety of fuel types that can challenge fire suppression efforts during the hot summer days. Another fire suppression challenge in Battalion II can be proximity to water sources. Because of this fact, A 10,000 gallon water tank, used for fire suppression efforts, has been in place for years on Denny Land and a new heliwell system (a large portable water tank that can easily be deployed) is now available for helicopters in remote areas.

Weather and access are big factors relating to fire spread within the battalion. It is not uncommon to have temperatures over 100° Fahrenheit, relative humidity in the low teens and strong North winds during summertime periods. On top of these challenges, access to most areas East of Highway 99E is extremely limited and slow due to very rocky, rugged conditions. The Campbell Fire burned 131,500 acres in 1990 and is one of the larger fires in California history. The fire burned in the foothills East of Vina and suppression efforts were hampered by hot and dry conditions and rugged, inaccessible terrain.

The most common fire causes within the battalion are equipment use/mechanical and debris pile escapes; however accidental human caused, arson, lightning and undetermined cause fires are not uncommon. A large percentage of the fires within the battalion occur along the heavily traveled roadways such as Interstate 5, State Highway 36 and State Highway 99.

There are many priorities for Battalion II including the continuation of the Interstate 5 fuel break project. The Interstate 5 fuel break project has been instrumental in minimizing fire spread and limiting the threat to nearby residences when fires do occur. A proposed addition to this project will be continuing the fuel break south of Red Bluff along the SRA boundary. Other priorities include continued education of the public on dooryard burning and burn pile regulations, risks and preventative measures, and LE-100 inspections. Emphasis on visible address markings will be focused on during LE-100 inspections as well as educating landowners of burn regulations. There are multiple stakeholders within the battalion. They include The Nature Conservancy (TNC), who we cooperate with to complete large Vegetation Management Plan burns each year. These burns remove invasive fuels not native to the area while simultaneously reducing fuel loads and providing valuable training opportunities to fire control employees. Other stakeholders include U.S. Fish and wildlife, BLM, Sierra Pacific Industries (SPI), USFS, California Fish and Wildlife, large land and cattle companies, ranchers and private landowners. We work closely with the other agencies on strategic planning, fire prevention and incident mitigation through multiple agreements and MOU's.

The responsibility of the fire service is to protect life and property. A combination of aggressive initial attack firefighting using available State, Federal, and Local Government resources and prevention and education activities are the keys to accomplishing our responsibilities. Focus will continue on training firefighting crews to the highest level, while educating and informing the public on fire prevention measures.



# BATTALION III – Administered by Battalion 2513



Battalion III lies in the northwest portion of Tehama County and includes the communities of Lake California, Bowman, Dibble Creek, R-Wildhorse Ranch, Ridgeway and Red Bank. The Battalion runs from the I-5 corridor and west Red Bluff area to the western border with Trinity and Mendocino National forests, and the Yolly

Bolly Wilderness Area. It runs from the Shasta County line in the North to the Red Bank area in the south.

Values at risk include a large number of residential and associated structures on large lot or ranchette settings. Livestock grazing, recreation and timber harvesting are important economically within the Battalion. The loss of infrastructure such as high voltage electrical lines and underground natural gas lines not only affects Tehama-Glenn Unit, but the entire state.

Topography within Battalion III consists of flat valley terrain in the East, that transitions to rolling foothills and steep mountain topography of the coastal range on the western edge. This area includes several major drainages which generally run west to east including Cottonwood Creek (Middle and South Fork), Elder Creek, and Salt Creek. These drainages form steep canyons with little access that promotes rapid fire spread.

Fuels within Battalion III consist of grass and oak-woodlands in the valley and lower foothills. The mid slopes transition into heavy brush of chemise, manzanita and grey pines until reaching the mixed conifer forests of Beegum Peak and Tomhead Mountain at approximately 4500' to 6000' elevation. Large ranches and structures are found throughout the mountainous areas.

The fire history in the area includes many large fires and lightning complexes that resulted in large acreage burned and structures destroyed such as the Skinner Mill Fire. Battalion III lies within the same mountain chain and just north of the Rattlesnake Fire location which claimed the lives of 15 firefighters in 1953. Fires occurring in the battalion travel quickly in the grass fuels and transition to the steep mixed brush presenting significant control challenges and the potential for large fire growth. Lightning strikes often cause multiple fires that are difficult to access. Deep marine layers, valley heating and diurnal winds can also lead to a local weather influence of significant downslope and sundowner winds from the west. These wind shifts can happen very quickly.

Priorities for Battalion III include, utilizing vegetation management practices to reduce and modify fuel loading. Work with CALTRANS and the Tehama County Road Department on roadside fuel modification projects. Identify, construct and maintain fuel break locations. Develop and improve water sources used for fire protection. Battalion III will continue to conduct residential defensible space inspections annually. Conduct power line inspections. Promote fire prevention education among the general public and at area schools.

CAL FIRE will work in cooperation with Stakeholders and Tehama County Resource Conservation District to continue improvements and maintenance of the fuel reduction and roadside fuel modification projects already underway in the Quail Ridge area of Bowman and the Lake California Community.

Protection of life, property and resources in Battalion III is the highest priority. Aggressive initial fire attack, sound vegetation management practices, effective public education, code enforcement and cooperation among stakeholders is the key to accomplishing these goals.



### **BATTALION IV – Administered by Battalion 2514**



Battalion IV encompasses the southern portion of Tehama County including the Local Responsibility Area (LRA) along the Interstate 5 corridor and all the State Responsibility Area (SRA) of Glenn County. The SRA boundary lies west of Interstate 5 to the Mendocino National Forest, south to the Glenn-Colusa County line, and north to Elder Creek in Tehama County. Communities within the battalion

include Richfield, Corning, Rancho Tehama, Flournoy, Henleyville, Paskenta, Chrome, Grindstone Rancheria, Stonyford, and Elk Creek. Outside of the larger communities, the population is dispersed through rural residences and ranchlands.

Predominate vegetation in the battalion consists of grassland, oak-woodland mixture, and chaparral. Blue Oak and Live Oak are the dominant tree species with a mix of Foothill Pine in higher elevations. Manzanita and Chemise are the primary chaparral in the area with dense patches present on the slopes and ridges below the Mendocino National Forest. Large annual grass crops intermixing with the chaparral cause the greatest fire suppression hazard in regards to fuels in the battalion. The light fuels carry fire rapidly and are receptive to spotting activity. Likewise, grass is an exceptional carrier of fire into the brush and brush canopy depending on fuel height and thickness.

Common weather in the battalion consists of summer temperatures over 100 Fahrenheit, relative humidity in the low teens to single digits and strong north winds. Weather conditions are the number one factor in fire spread and fire activity in the battalion. Along with the weather challenge, topography plays a role in the battalion for fire spread. The topography in the battalion consists of flat valley lands with a transition to rolling hills to step hills. There are narrow drainages on the west side that feed seasonal streams, ponds and waterways. Two and four-wheel drive fire vehicles can achieve access to most of the battalion. There are numerous dirt ranch roads spread throughout the battalion that allow access to remote areas. With the mix of weather, topography, and fuels, fires in the battalion can be fast moving and unpredictable.

The most common fire causes within the battalion are equipment use/mechanical and debris pile escapes. Historically, fires in the State Responsibility Area (SRA) occur along traveled county roads, at rural ranchlands and within the larger populated Rancho Tehama community. Arson and accidental human caused fires are not uncommon in the area. Lightning levels on the west side of the battalion are another contributor to fire activity within the battalion.

Besides the communities and residences located in the battalion, other assets in the battalion are at risk from fire. A majority of the battalion is rural ranch land with both grazing and agricultural field and farmland. There is a high value placed on the annual grasses in the area due to livestock grazing. Likewise, the infrastructure on the ranch lands such as barns, fences, feeders, and equipment are vital to the ranching operation. Also located in the battalion are the water reservoirs, Black Butte Lake and Stony Gorge. Both Black Butte and Stony Gorge provide summertime water and camping recreation to the public.

There are numerous stakeholders and agencies within the battalion that share a common interest regarding fire plans. The stakeholders and agencies include, Glenn County Resource Conservation District, Tehama County Resource Conservation District, large land, timber, and cattle companies, ranch owners, Rancho Tehama Owners Association, US Army Corps of Engineers, BIA, US Fish and Wildlife, USFS, BLM, California State Parks, US Bureau of Reclamation, and the Glenn County Fire Chiefs Association. We have multiple agreements and operating plans within the battalion that allow for fire prevention, cross agency training, strategic planning and incident mitigation.

Annual projects in the battalion include road grading, fuel breaks, and fire safety training with the US Army Corps of Engineers at Black Butte Lake. Another critical component that affects Battalion III and IV is the Pellows fire road. This road is graded and maintained annually by CAL FIRE in cooperation with local landowners. The Eagle Peak Fire Lookout is located in Battalion IV eight miles west of the community of Paskenta. The lookout is maintained for early fire detection during inclement fire weather. From its location on Eagle Peak, it has the ability to view all SRA areas of Tehama and Glenn counties and the eastern slope of Paskenta District of the Mendocino National Forest. The lookout requires annual maintenance consisting of road grading and facility repairs from the harsh winter conditions on Eagle Peak. Currently the fire lookout requires minor upgrades to the facilities to increase its abilities to protect the SRA, increase security from vandals, and decrease the annual maintenance costs that are required.

The five year goals for the battalion are to continue to educate the public and assist with improving defensible space in the communities of Elk Creek and Rancho Tehama and to continue to improve and establish new fuel breaks, fire and evacuation road access, and water supplies in the community of Rancho Tehama.

A short term goal in the community of Paskenta is to establish a water storage system at the CAL FIRE Paskenta Fire Station for SRA fire suppression and to create a fire and drought resistant landscaping demonstration area at the fire station. A goal for Highway 162 in Glenn County would be adding a fire line along the roadway in the SRA areas to increase the fire protection abilities.

The Grindstone Rancheria lies just north of the community of Elk Creek. There have been several fire starts on and around the Rancheria creating the potential for large fires in a WUI setting. A project that would aid in defending the structures would be adding a fire line around the perimeter of the Rancheria and adjoining ranches. A short term goal also in Glenn County is to re-establish, improve, identify, and map fire road access points in western Glenn County.

### ISHI CONSERVATION CAMP - Administered by D2503



Ishi Conservation Camp is one of three camps located in the CAL FIRE Tehama-Glenn Unit and the only camp servicing eastern Tehama County. Located 25 miles east of Red Bluff, the 100 man camp changed hands throughout the 1960's and 1970's until the California Department of Corrections entered a cooperative agreement with the California Department

of Forestry in 1981. Since then, Ishi Camp has taken a multi-faceted approach in meeting CAL FIRE'S mission, goals and objectives.

Emergency response is the top priority as the camp is staffed 24 hours a day, 7 days a week. Although the camp does engage in flood fighting, snow removal, and storm clean-up, the primary mission is wildland fire suppression. Ishi Crews respond to emergency incidents in southern Shasta County, western Lassen County, eastern Tehama County and northern Butte County for wildland fires. As with all camps, Ishi Crews are a major resource used for post-fire suppression by utilizing crews for reforestation planting, erosion control and fuel reduction. The five crew's average approximately 50,000 emergency man hours a year.

Since 1985, Ishi Camp has hosted the Ishi Exercises. The Ishi training exercise evaluates the fire preparedness of nearly fifty Northern California inmate fire crews from most of the Northern Region fire camps.

In addition to emergency response, Ishi Camp is engaged in pre-fire management, specifically fuel reduction projects by working with many of the stakeholders from Local, State and Federal jurisdictions. Projects range from shaded fuel breaks in strategic locations based on fire history maps, placing water tanks in remote locations as a water source for wildland fires, to removing hazardous fuels along Interstates and Highways to help prevent the spread of fires. Private land owners participate in these projects by providing assistance and funding for projects through the previously mentioned jurisdictions as well as the local Fire Safe Council and Water Shed Districts. The five Ishi Fire Crews averaged 160,000 man hours of project work a year. Approximately 80,000 of those hours were dedicated to fuel reduction projects within the Unit.

Lastly, Ishi Crews are an important resource to the local community. Ishi Camp participates in the Adopt a Highway program, provides a labor force to multiple school districts for campus clean up and improvement.

# SALT CREEK CONSERVATION CAMP - Administered by D2504



Salt Creek Conservation Camp is located 38 miles west of Corning in the southwestern portion of Tehama County. The facility is situated in a protected basin of the Mendocino National Forest 9 miles southwest of the town of Paskenta. The Camp houses an average of 120 low risk inmates under the direction of the California Department of Corrections and Rehabilitation and CAL FIRE. The camp maintains six (6) fire crews that are capable of

responding to a variety of "all-risk" emergencies; ranging from wildland fires, floods, rescues and other natural and man-caused disasters. In addition to emergency response, our crews provide community service project work with local agencies in Butte, Glenn and Tehama Counties.

During unusually slow fire seasons, the reduction in fire responses provides an added benefit to the residents of Tehama and Glenn counties by increasing the hours spent performing conservation work. Noteworthy projects during the last year include fire hazard reduction for the Sunflower CRMP and Interstate 5 corridor. Our crews also provided levee maintenance and restoration projects for Tehama Public Works; performing flood control within the Deer Creek and Elder Creek drainages. The City of Corning, Corning Jr. Rodeo, Corning Little League, Gerber School and Richfield School were also beneficiaries of conservation work performed by our crews within this past year. Our most extensive project within Tehama County involved constructing a 6 mile trail at Black Butte Lake for the Army Corps of Engineers. This trail which included several bridges and water crossings was intended to be used for public recreation following the inaugural Black Butte Triathlon.

Salt Creek Conservation Camp averages 40,000 man hours on emergency incidents, and 200,000 man hours of project work.

Since the opening in 1987, Salt Creek Conservation Camp has continued to be a valuable resource for the State of California and the citizens of Tehama County through conservation and the protection of life, property and natural resources.

# VALLEY VIEW CONSERVATION CAMP - Administered by D2505



Located at Alder Springs in western Glenn County, Valley View Camp is in the Mendocino National Forest's summertime comfort zone of 4,500 ft. Partnered with the California Department of Corrections and Rehabilitation, CAL FIRE operates 6 Fire Crews for incident response, 5 of which are project crews when no emergency need exists.

The range of Valley View's project locations extends to Glenn, Butte, and Colusa Counties. Sponsors within Glenn County include:

- Glenn County Road Department—road brushing and chipping to maintain clearances of rural county roads.
- US Fish and Wildlife Service—removal of unwanted vegetation and specifically the nonnative and aggressive species of vegetation like arrunda.
- Cemetery Districts—grounds and facility maintenance for Elk Creek, German (Artois), and Butte City cemeteries.
- Levee Districts—removal of vegetation from levee banks for improved integrity and visibility of levee surfaces.

US Forest Service (Mendocino National Forest)—assist in many aspects of timber management, including seedling protection, timber thinning projects, post-harvest clean-up, road brushing, and vegetation management burning. One current USFS project is the Wildland-Urban Interface (WUI) shaded fuel break project around Valley View Camp and the adjacent USFS Alder Springs Guard Station. This project is being completed is several phases due to the large scope—crews have removed brush and limbed up trees in the 200 ft. proximity of the camp. They will assist in completing an understory burn past that area; and will assist to contain and patrol an additional helicopter-torched burn later in spring. This project will modify much of the surrounding vegetation and create a more fire-defensible area for the station and camp.

# APPENDIX A: PRE-FIRE PROJECTS



# PRE-FIRE PROJECTS

# For Tehama-Glenn Unit (TGU)

			TREATMENT	TREATMENT
			<b>FOOTPRINT</b>	FOOTPRINT
PROJECT NAME	PROJECT STATUS	TYPE	ACRES	MILES
2012 PFE ADMIN	Complete	Prevention	6.84	0.00
County Road 306 Fuels Reduction	Planned	FirePlan	0.00	0.00
Forward Fuel Break	Complete	FirePlan	14.92	0.00
Gallatin VMP 2010-2012	Complete	VMP	1,865.62	0.00
Gallatin VMP 2013-2015	Complete	VMP	754.80	0.00
Hazen C-Line Fuelbreak	Active	FirePlan	472.36	0.00
Highway 162 Fuel Break	Active	FirePlan	26.11	0.00
Inskip Fuel Reduction	Planned	FirePlan	0.00	0.00
Interstate-5 Fuelbreak	Active	FirePlan	17.50	0.00
Little Giant Mill Road Fuelbreak	Complete	FirePlan	154.54	0.00
Nature Conservancy 2011	Complete	VMP	2,125.68	0.00
Nature Conservancy 2012-2014	Complete	VMP	1,344.13	0.00
Nature Conservancy 2015-2017	Active	VMP	1,087.64	0.00
Pattymocus Fuelbreak	Complete	FirePlan	77.66	0.00
Paynes Creek Fuel Break	Complete	FirePlan	223.66	0.00
Paynes Creek Sportsman Club	Active	VMP	0.00	0.00
Ponderosa Way to Boondocks	Complete	FirePlan	27.99	0.00
Ponderosa Way/Sky Ranch Fuelbreak	Active	FirePlan	0.00	0.00
Rancho Tehama	Active	FirePlan	0.00	0.00
Round Mountain Fuels Reduction Project	Complete	FirePlan	58.05	0.00
Sunflower VI/IP	Active	VMP	19,172.93	0.00
TCRCD Benson/Basler	Complete	FirePlan	370.68	0.00
TCRCD Boondocks	Complete	FirePlan	432.79	0.00
TCRCD Forward Rd	Complete	FirePlan	150.12	0.00
TCRCD Lake California	Active	FirePlan	484.59	0.00
TCRCD Manton	Complete	FirePlan	188.40	0.00
TCRCD Mineral	Complete	FirePlan	95.20	0.00
TCRCD Ponderosa Way	Complete	FirePlan	122.15	0.00
WUI Fire Planning	Complete	FirePlan	12.70	0.00

Last update: 2 May 2016

### APPENDIX B: UNIT GOALS AND OBJECTIVES

One of the priority objectives for the Tehama-Glenn Unit is to reduce the number of ignitions in the State Responsibility Area (SRA). The five year historical trend shows vehicle use and equipment use as the predominate cause of vegetation fires on state lands. We plan on reducing these ignitions by way of public education, timber harvest site inspections, and Public Resource Code (PRC) Section 4291 inspections. Past history has shown the vast majority of residents within the county are within compliance of PRC 4291. Those who are not within compliance are inspected a second and third time. If the third inspection is still not in compliance the home / land owner can be cited (misdemeanor). The overall goal and objective of the PRC 4291 Inspection program is to help confine fires to a smaller area and to aid in the overall safety of fire suppression personnel during suppression activities.

Tehama County has recently adopted an ordinance which mirrors PRC 4291, but is more effective in its ability to inspect / enforce on unimproved properties (TCO 9.05.08). These inspections are carried out by Defensible Space Inspectors and Life Safety and Education Officers in specific targeted areas of the county. The areas in which the inspections take place are chosen due to fire activity and population base in the Wildland Urban Interface. These areas are noted and are of concern to the assigned Battalion Chief, and have been addressed in the battalion ignition plan. These goals can be measured yearly by way of compiled statistical data which includes number of ignitions, ignition cause, and ignition location. The target areas are to be changed annually based on statistical analysis and battalion ignition plans.

Some ignitions cannot be deterred (lightning). The goal of this unit is to keep the fires small and confined, thus substantially lowering the cost of suppression. With the growing fiscal crisis in the State of California this area is of great concern and importance. The cost of a major wildland fire can cost millions of taxpayer dollars, both State and Federal monies.

Another goal of the Unit is to continue collaborative growth with local stakeholders and Fire Safe Councils within Tehama and Glenn counties. We are fortunate to have a very strong working relationship with several different groups. Notably, grant funding for many projects in the Unit are drying up. This creates the need to work together even more to find solutions and prioritize projects for the future. CAL FIRE has pledged to play a greater role in assisting local stakeholders and Fire Safe Councils, which we have done. One way we are assisting is by helping to create a plan to implement "Fire Wise communities" within the counties. Once a community is nationally recognized as a "Fire Wise community", it should enhance the community's opportunities for grant funds to continue work on projects in the area.

These goals may be hard to measure as grant funding is continually being reduced. However, for those communities which attain "Fire Wise" status, we will continue to support projects which fall in the realm of fire safety; and track the ability of these groups to obtain grants. Over several years we should be able to determine if being "Fire Wise" assisted in the grant process.

The County of Tehama employs two "Life Safety and Education Officers", more commonly known as Fire and Building Code Inspectors. These positions are partially funded by the "Secure Rural Schools" grant (Title III Grant). The grant is a diminishing funded grant, meaning the funding for these two positions will only be available for approximately three more years. Based on the work performance of the inspectors, and the importance of the role they play, we (CAL FIRE) would like to seek other funding sources in order to fund these positions permanently

### APPENDICES C-Z

### APPENDIX C:

### **COMMUNITY WILDFIRE PROTECTION PLANS**

The Tehama- Glenn Unit (CAL FIRE) supports the goals and objectives of the following Community Wildfire Protection Plans:

Tehama East CWPP - Tehama County Resource Conservation District

Glenn County CWPP – Glenn County Resource Conservation District

### Other Fire Plans (non CWPP):

<u>Tehama West Fire Management Plan</u> - Tehama County Resource Conservation District

<u>Tehama Wildlife Area Vegetation and Fuels Management Plan</u> – California Department of Fish and Game, Tehama County Resource Conservation District

<u>Cottonwood Creek Watershed Strategic Fuels and Management Plan Update 2010</u> – Western Shasta Resource Conservation District

North Fork Screens and Ladders Battle Creek Restoration Project – Syblon Reid General Engineering Contractors

<u>Fire Protection and Prevention Plan Wildcat Dam Removal Battle Creek Salmon and Steelhead Restoration Project RSN 1570-1</u> – Ford Construction

<u>Pacific Gas and Electric Company Fire Prevention/Protection Plan</u> - Pacific Gas and Electric Company Vegetation Management

Collins Pine Company 2016 Fire Plan – Collins Pine Co. Jay Francis

Crane Mills 2016 Fire Plan – Crane Mills, Harold Mason

<u>Sierra Pacific Industries 2016 Lassen District Fire Policy Fire Plan Fire Suppression Resource</u> Inventory – Sierra Pacific Industries

Sierra Pacific Industries Stirling City District 2016 Fire Plan – Sierra Pacific Industries

# CAL FIRE Tehama-Glenn Unit specific action and suppression plans:

TGU Lightning Plan (updated as needed)

TGU Battalion Ignition Plans (updated annually)

TGU Staffing Plan (updated annually)

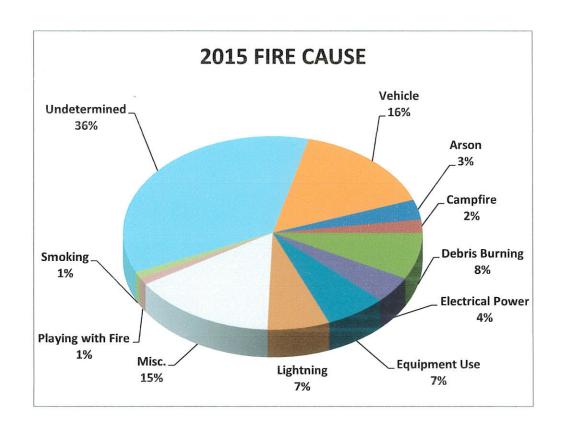
TGU Fire Weather Plan (updated as needed)

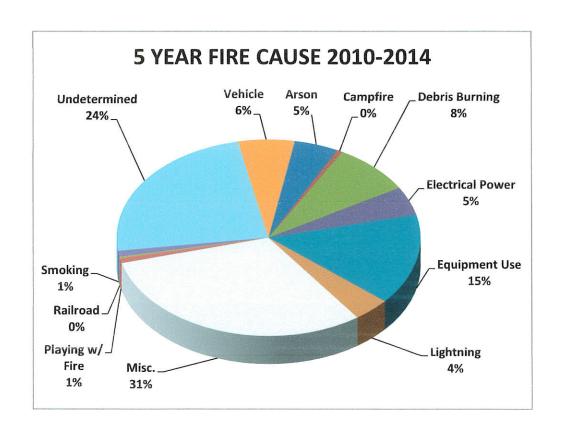
## APPENDIX D: IGNITION ANALYSIS

The most common ignition causes for vegetation fires within the Tehama-Glenn Unit are equipment use, vehicle caused fires and debris burning. They comprise 29% of all ignitions for the past 5 years. In 2015, fires determined to be vehicle caused increased by 10% compared to the five year average. This increase might be due to more vehicles using the roadways. Tehama-Glenn will increase roadway fuels project planning to keep roadside fires 10 acres or less.

The causes of many fires can only be narrowed down to a few possibilities; therefore they are classified as "undetermined". TGU strives to increase Company Officer skills in origin and cause determination by encouraging them to attend investigation training.

Data for this analysis was obtained from CAIRS and reflects vegetation fires in the state responsibility areas of Tehama and Glenn counties. The following charts help illustrate occurrence and causes of fires in the unit currently and for the previous 5 years.

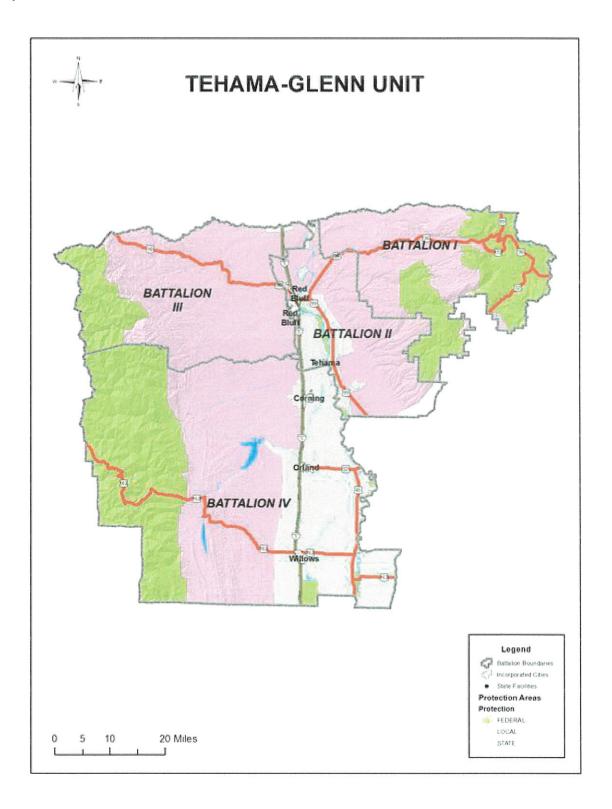


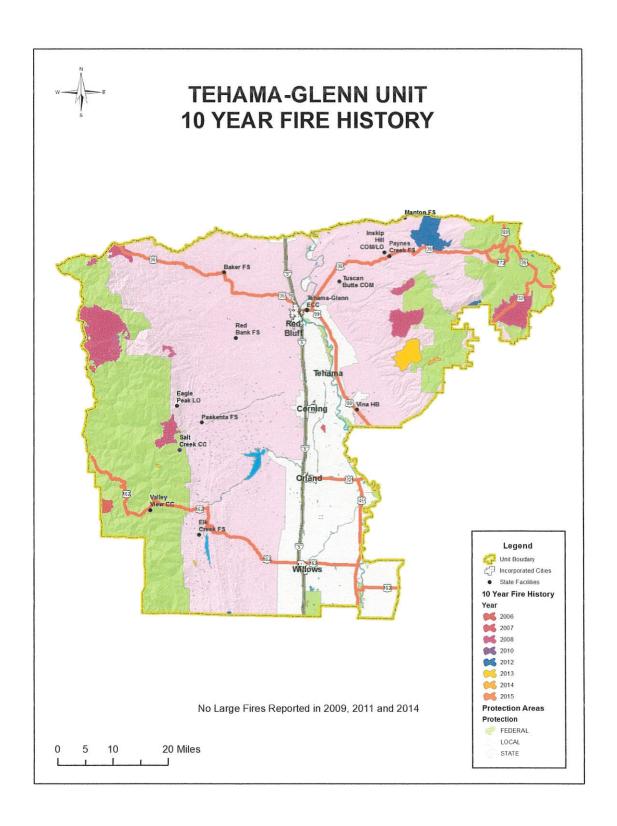


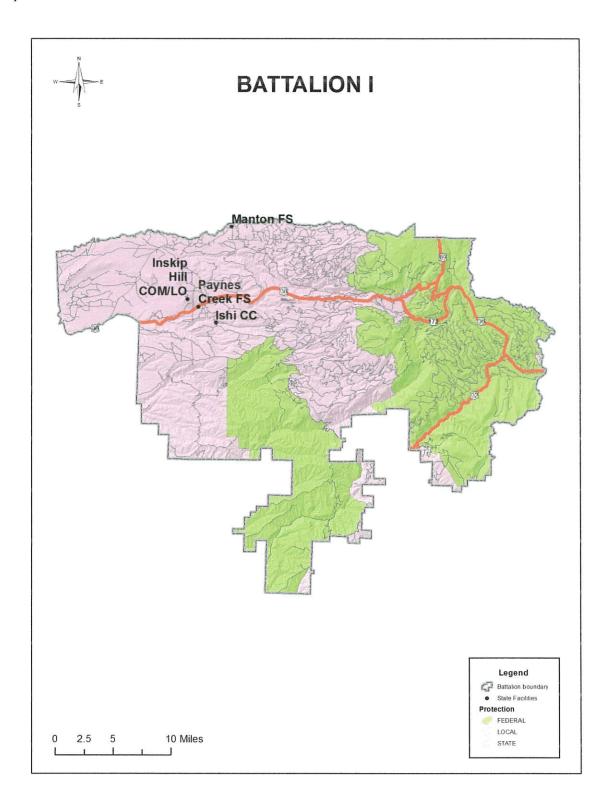
**EXHIBITS: MAPS** 

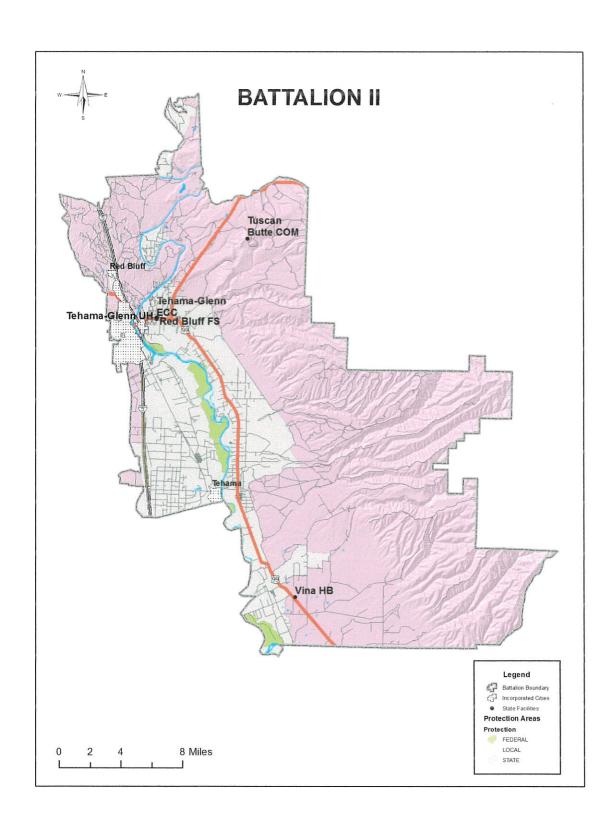
Figure A: Unit

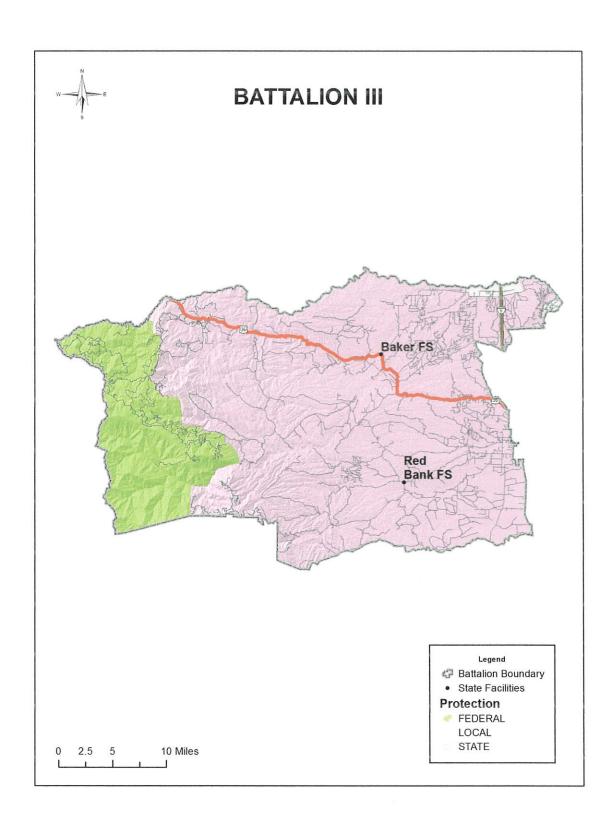
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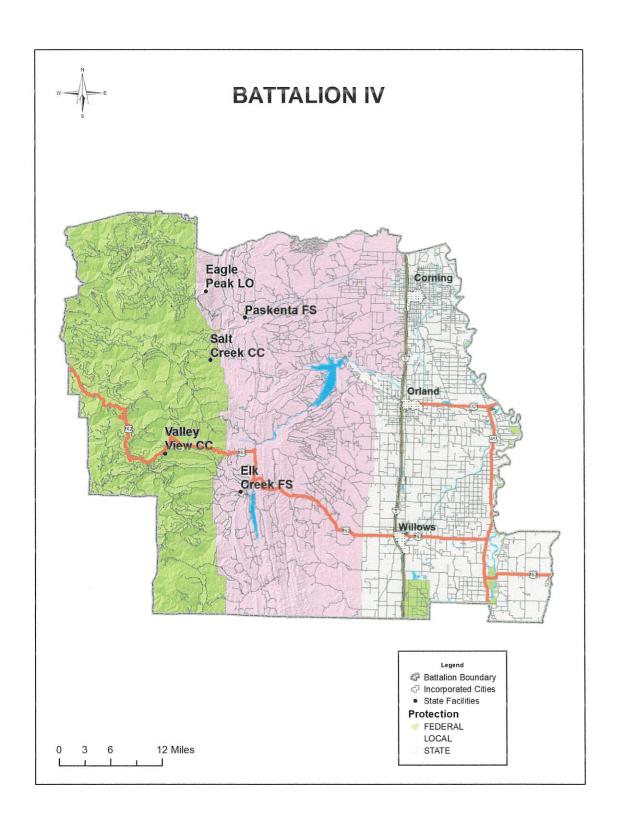












SUPPLEMENT: 2016

# **ANNUAL ACCOMPLISHMENTS REPORTING (2016)**

# Fire Planning:

During 2015, a Wildfire Pre-Planning project was completed for Battalion I in the Tehama-Glenn Unit. These Pre-Plans include water sources, critical infrastructure, fuel breaks, and previous fire history. Many personnel hours were utilized in verifying address and improvement data. The purpose of the Wildfire Pre-Plans is to allow initial attack resources, whether local or out of unit, a quick response guide to Battalions or communities. The information contained in the Wildfire Pre-Plan will also be helpful for planning purposes should the incident reach extended or major fire levels. Another Wildfire Pre-Plan map has been started for Battalion III with a projected completion time of May 2016.

### **Investigations and Enforcement:**

The Tehama-Glenn Prevention Bureau conducted investigations pertaining to determined arson fires with 1 arrest. There were three citations issued.

### Wildland Fire Prevention Engineering:

In March of 2015, Tehama-Glenn Unit hired 2 Forestry Aids to perform 4291 Defensible Space Inspections in the unit. During their time in the field, they conducted approximately 3800 first inspections with a passing rate of 87%. There were fewer third inspections 103 compared to last year 176. In total, property compliance with PRC 4291 was at 99%.

### **Education and Information:**

In 2015 the Information and Education Section of the Fire Prevention Bureau participated in numerous fire prevention programs in Tehama-Glenn Unit, including school presentations for approximately 2600 kids, the Tehama County Fair, parades, the Corning Olive Festival, Manton Apple Festival, Dairyville Orchard Festival, May Madness Car Show, and the Special Olympics of Tehama County. It is estimated that approximately 36,000 public contacts were made for the year. In 2015, CAL FIRE, Tehama County Fire Department personnel, and Volunteers in Prevention put in 2600 hours of fire prevention time. There were approximately 200 media contacts via news release, interviews, and phone calls.

### Vegetation Management:

In 2015, SRAFPF grants were awarded to Glenn County Resource Conservation District for the Highway 162 Fuel Break and Tehama County Resource Conservation District for the Hazen C Line Fuel Break. The Highway 162 Fuel Break consists of completing 17 miles of hand line construction

within the CAL TRANS right of way, along Highway 162 in the SRA portion of Glenn County. Four of the seventeen mile project has been completed to date. The Hazen C Line project has been an ongoing project for several years and is comprised of constructing and maintaining a 300 feet wide roadside fuel break in the Manton area. Funding for this project has allowed the fuel break to be extended approximately 2 miles and when complete will connect to an existing stake holder's fuel break.

The SRAFPF Unit Allotment funded maintenance of approximately 11 miles of the I-5 Fuel Break and 21 miles of the Pellows Road Grading Project.

The California Conservation Corps have completed 1.5 miles of the Ponderosa Way Sky Ranch Fuel Break project this winter using SRA funding.

On the Nature Conservancy VMP, Tehama-Glenn Unit successfully burned 1090 acres to eradicate noxious weeds and improve range and wildlife habitat. On the Payne's Creek Sportsman's Club VMP approximately 80 acres of chemise was cut, piled and burned. The cutting of brush was completed during the crew preparedness exercise and piling and burning done during the winter months.

**Unit Chief** 

Christine Thompson

Date

lay 9,2016

# ANNUAL ACCOMPLISHMENTS REPORTING (2015)

# Fire Planning:

During the last part of 2014, a project was started to build Wildfire Pre-Plans for the Tehama-Glenn Unit. These Pre-Plans include water sources, critical infrastructure, fuel breaks, and previous fire history. Many personnel hours were utilized in verifying address and improvement data. The purpose of the Wildfire Pre-Plans is to allow initial attack resources, whether local or out of unit, a quick response guide to Battalions or communities. The information contained in the Wildfire Pre-Plan will also be helpful for planning purposes should the incident reach extended or major fire levels.

### Investigations and Enforcement:

The Tehama Glenn Unit Fire Prevention Bureau conducted investigations pertaining to arson and criminal actions. These investigations resulted in 0 arrests and 38 citations with approximately 5 District Attorney's referrals.

### Wildland Fire Prevention Engineering:

During 2014, Tehama-Glenn Unit hired on 4 Forestry Aides to perform 4291 Defensible Space Inspections in the two Counties. They worked from April 1<sup>st</sup> till October 31<sup>st</sup>. During their time in the field they conducted 3,659 4291 first inspections. They conducted these inspections in Rancho Tehama, Ponderosa Sky Ranch, Manton, Bowman, Hwy 36 West, Mineral, Old Mission Rd, Paskenta, Red Bank, and Wilcox Rd. Of the 3659 first inspections, 599 received a second inspection. There were a total of 156 third inspections preformed in those areas of which 50 failed to comply with the 4291 regulation and were cited. The majority of the citations were issued in the Rancho Tehama and Ponderosa Sky Ranch areas of Tehama County

### **Education and Information:**

In 2014 the Information and Education Section of the Fire Prevention Bureau participated in numerous fire prevention programs in Tehama-Glenn Unit, including school presentations for approximately 2600 children, the Tehama County Fair, parades, the Corning Olive Festival, Dairyville Orchard Festival, May Madness Car Show, and the Special Olympics of Tehama County. It is estimated that approximately 34,000 public contacts were made for the year. In 2014, CAL FIRE, Tehama County Fire Department personnel, and Volunteers in Prevention put in 3050 hours of fire prevention time. There were approximately 200 media contacts via news release, interviews, and phone calls.

## Vegetation Management:

Tehama Glenn Unit prepared two new Vegetation Management Plans, (VMP) for implementation in FY 2015-16. Under the emerging State Responsibility Area, (SRA) Fee Program, nine projects qualified for funding. Two projects provided the unit the opportunity to replace a worn out fire prevention costume and purchase prevention education brochures. Six fuel projects involved vegetation treatments on SRA lands for a total of 77 treatment acres. One new proposed fuel break project provided for the environmental review to be completed in preparation for project implementation in 2015 through a contract with the Tehama County Resource Conservation District. In the later part of 2014, three funding sources were established within the State Responsibility Area Fire Prevention Fund (SRAFPF) program and the unit successfully funded three reoccurring vegetation treatment projects. Work is expected to commence in April 2015 through June 30, 2015 for approximately 43 acres of hazardous vegetation treatment.

#### Volunteerism:

There are currently 60 active Volunteers in Prevention who assist the Fire Prevention Bureau in educating the public about fire safety. The VIP's spent 726 hours educating the public and assisting the Fire Prevention Bureau in the Tehama-Glenn Unit.

Unit Chief

Christine Thompson

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Date

Last update: 2 May 2016

# **ANNUAL ACCOMPLISHMENTS REPORTING (2014)**

## Fire Planning:

During 2013, an effort was made to accurately document and digitizes existing fuel breaks in the Sunflower CRMP. Whether grant funded or privately constructed, these fuel breaks could be an important resource for incident fire planning and operations if a fire should occur in this area.

# Investigations and Enforcement:

The Tehama-Glenn Unit Fire Prevention Bureau conducted investigations pertaining to arson and criminal actions. These investigations resulted in 3 arrests and 11 citations with approximately 5 District Attorney's referrals. The Prevention Bureau confiscated approximately 200 pounds of illegal fireworks. The Tehama Glenn Prevention Bureau continues its efforts in education, enforcement and deterrence of unwanted fires.

### Wildland Fire Prevention Engineering:

During 2013, the Tehama-Glenn Unit conducted total of 362 4291 inspections. Of that total, 109 properties failed the first inspection. Due to early fire activity, only 13 second inspections where able to be completed.

### Civil Cost Recovery:

Unit cost recovery cases consisted of 4 civil cost recovery action with 2 cases forwarded to region and 2 remained within the unit. All four civil cases are in litigation.

### **Education and Information:**

In 2013 the Information and Education Section of the Fire Prevention Bureau participated in numerous fire prevention programs in Tehama and Glenn Counties, including school presentations for approximately 2600 kids, the Tehama County Fair, parades, the Corning Olive Festival, Dairyville Orchard Festival, the Emergency Preparedness Day in Red Bluff, and the Special Olympics of Tehama County. It is estimated that approximately 34,000 public contacts were made for the year. In 2013, CAL FIRE, Tehama County Fire Department personnel, and VIP's put in 2496 hours of fire prevention time. There were approximately 206 media contacts via news release, interviews, and phone calls.

# **Vegetation Management:**

Tehama-Glenn Unit and cooperating Units completed 1,356 acres of range improvement vegetation management burns yielding \$1,356.00 in "Black-Acre" reimbursement dollars for the Unit. There were three ongoing fuel break projects funded under Hazardous Fuels Treatment grants in the Unit. All of the fuels projects expired at the end of 2013. Two new vegetation Management projects are in the planning stages for 2014-2016. Several new SRA-funded fuels projects were submitted for approval, with work on the new projects expected to commence in April, 2014 through June, 30, 2014.

### Volunteerism:

There are currently 78 active Volunteers in Prevention who assist the Fire Prevention Bureau in educating the public about fire safety. The VIP's spent 591 hours educating the public and assisting the Fire Prevention Bureau in Tehama County.

Unit Chief

Jeff Schori

Date

5-1-14

# Annual Report of Unit Accomplishments (2013)

Objective: Reduce the number of ignitions in SRA.

In 2012, the Tehama-Glenn Unit continued in its efforts to reduce ignitions by supporting and participating in various fuel reduction projects throughout the Unit. During the Ponderosa fire in August, suppression crews were able to utilize an existing fuel break (Hazen C-Line, 2500-2011-FPL-008) to control a part of that fire that might otherwise have destroyed many more acres of valuable timberland. Other strategically placed fuel breaks have been completed during the year. A fuel break in its self doesn't necessarily reduce the number of ignitions; however, it can be a useful tool to keep fires that do occur, smaller and more manageable.

Objective: To continue collaborative growth with local stakeholders and fire safe councils.

The Unit's Vegetation Management Program continues to help local stakeholders by allowing property managers an outlet to reach their goals for wildlife habitat and range management. The Units involvement in these prescribed burns also has the benefit of allowing fire personnel the opportunity to train in firing techniques and fire behavior. In 2012, as part of the VMP process, an approximate total of 1400 prescription acres were burned. Tehama-Glenn has been actively involved with local and county fire safe councils by attending meetings, providing input and guidance. In 2012, many hours were spent by CALFIRE representatives helping local fire safe councils and resource conservation districts in the achievements of their goals and the goals of the Community Wildfire Protection Plan.

Objective: To educate the public on why fire prevention techniques and requirement measures are so important in developing safer homes and communities.

Tehama County has passed an ordinance which is based off of the Public Resource Code Section 4291, thus allowing us to enforce within the Local Responsibility Areas. During 2012, 138 initial inspections were performed. During the contacts they were educated on the ordinance and the importance of defensible space and fire safety awareness. The Information and Education Section of the Fire Prevention Bureau participates in numerous fire prevention programs in Tehama and Glenn Counties, including school presentations for thousands of children, the Tehama County Fair, parades, the Corning Olive Festival and the Emergency Preparedness Day in Red Bluff, as well as the Special Olympics of Tehama County and the Regional Special Olympics of Northern California in Davis CA. It is estimated that over 34,000 public contacts were made in 2012. Tehama County employs two, Title 3 funded Tehama County Fire Prevention / Life Safety Education officers. During 2012 these officers completed over 1000 inspections, drove over 20,000 miles, logged 745 hours in inspections/public education contacts. The 2012 Commercial Inspection Program continued to see a significant reduction in violations such as missing or out of service fire extinguishers, blocked exits, misuse of extension cords and storage of hazardous materials. By educating business owners, they become more successful in providing a safe and productive business environment for employees and the community.

Objective: to collect and analyze data from a variety of resources to evaluate potential projects and determine the levels of benefits provided to the communities and environment within the Unit

One of the main objectives of the Pre Fire Engineer is to provide expertise and direction to local stake holders, Fire Safe Councils, and Resource Conservation Districts. During 2012, Calmapper has been utilized to log and map stakeholder's projects such as fuel breaks and modifications. These projects are carefully documented in an effort to better utilize these features in the event of a fast moving wildfire.